

SEQUENCE LISTING

<110> TAKARA BIO INC.

<120> Composition for suppressing human Flt-3 function

<130> 04-062-PCTJP

<150> JP2003-350253

<151> 2003-10-09

<160> 40

<170> PatentIn version 3.3

<210> 1

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> A partial cDNA sequence of ATP-binding site.

<400> 1

aaggtactag gatcaggtgc t

21

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ1-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 2

gguacuagga ucaggugcut t

21

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 3
agcaccugau ccuaguacct t

21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of TK domain.

<400> 4
aacaggagtc tcaatccagg t

21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-S. "nucleotides 20 and 21 are
deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 5
caggagucuc aauccaggut t

21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-AS. "nucleotides 20 and 21 are
deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 6
accuggauug agacuccugt t

21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 7

aatatgaata tgatctcaaa t

21

<210> 8

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ3-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 8

uaugaauaug aucucaaaut t

21

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ3-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 9

auuugagauc auauucauat t

21

<210> 10

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> A partial cDNA sequence of bcr/abl chimera domain.

<400> 10

aagcagagtt caaaagcccu u

21

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 11

gcagaguuca aaagcccuut t

21

<210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 12

aagggcuuuu gaacucugct t

21

<210> 13

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer FLT11F for amplifying a gene encoding FLT3.

<400> 13

gcaatttagg tatgaaagcc agc

23

<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer FLT12R for amplifying a gene encoding FLT3.

<400> 14

ctttcagcat tttgacggca acc

23

<210> 15

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer G1 for amplifying a gene encoding GAPDH.

<400> 15
 caacagcctc aagatcatca gc 22

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer G2 for amplifying a gene encoding GAPDH.

<400> 16
 ttctagacgg caggtcaggt c 21

<210> 17
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17
 gatcccggtc ctaggatacag gtgctttcaa gagaagcacc tgatcctagt accttttttg 60
 gaaa 64

<210> 18
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding

domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18
agcttttcca aaaaaggtag taggatacagg tgctttcttt gaaagcacct gatcctagta 60
ccgg 64

<210> 19
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON1F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 19
gatcccgagg tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60
gaaa 64

<210> 20
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON1R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 20
agcttttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60
ccgg 64

<210> 21
<211> 64

<212> DNA
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 21
 gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atattttttg 60
 gaaa 64

<210> 22
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 22
 agcttttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60
 tagg 64

<210> 23
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3CON3F for expressing control sequence. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23
 gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt attttttttg 60

gaaa

64

<210> 24
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3CON3R for expressing control sequence.
 "the region of nucleotides 1 to 5 is HindIII restriction site -
 the region of nucleotides 10 to 15 is RNA polymerase III
 terminator site - the region of nucleotides 35 to 43 is loop

<400> 24

agctttttcca aaaaaaataa ttggttcaa agattctctt gaaatctttg aagcaaatta 60

ttgg

64

<210> 25
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> 5' sequencing primer.

<400> 25

taatacgact cactataggg

20

<210> 26
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>

<223> 3' sequencing primer.

<400> 26

aggcgattaa gttgggta

18

<210> 27
 <211> 144
 <212> DNA

<213> Artificial Sequence

<220>

<223> Juxtamembrane domain.

<400> 27

tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc 60

ggctcctcag ataatgagta ottctacgtt gatttcagag aatatgaata tgatctcaaa 120

tgggagtttc caagagaaaa tttta 144

<210> 28

<211> 471

<212> DNA

<213> Artificial Sequence

<220>

<223> Tyrosine kinase domain.

<400> 28

acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc 60

tgaaagaaaa agcagacagc totgaaagag aggcactcat gtcagaactc aagatgatga 120

cccagctggg aagccacgag aatattgtga acctgctggg ggcggtgcaca ctgtcaggac 180

caatttactt gatTTTTgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240

aaagagaaaa atttcacagg acttggacag agattttcaa ggaacacaat ttcagttttt 300

acccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360

accggactc ggaatcaaatc tcagggttc atgggaattc atttactct gaagatgaaa 420

ttgaatatga aaacaaaaa aggctggaag aagaggagga cttgaatgtg c 471

<210> 29

<211> 517

<212> DNA

<213> Artificial Sequence

<220>

<223> ATP-binding domain.

<400> 29

gagtttgga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60
 ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120
 gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctgggaagc 180
 cacgagaata ttgtgaacct gctgggggog tgcacactgt caggaccaat ttacttgatt 240
 tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300
 cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttacct cactttccaa 360
 tcacatccaa attccagcat gcctggttca agagaagttc agatacacco ggactcggat 420
 caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
 caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other
 nucleotides are ribonucleotides."

<400> 30
 gguuauaguc aggaacgcat t 21

<210> 31
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other
 nucleotides are ribonucleotides."

<400> 31
 ugcguuccug uacauaacct t 21

<210> 32
 <211> 19
 <212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of ATP-binding domain.

<400> 32

ggtactagga tcaggtgct

19

<210> 33

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 33

gguacuagga ucaggugcu

19

<210> 34

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 34

agcaccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccaggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaaat

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 39

uauaauaug aucucaaau

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagauc auauucaua